CLAIMS

We Claim:

LIVI)	1. A transportable container having an internal environment i	solated from
2	ambient atmospheric conditions, comprising:	

- a sensor, monitoring a condition of said internal environment, and
- 4 transmitting data related to said monitored condition; and,
- 5 a power supply, providing power to said sensor.
- 1 2. The transportable container of Claim 1, wherein said sensor continuously
- and non-invasively monitors said condition of said internal environment within
- 3 said container.
- 1 3. The transportable container of Claim 1, wherein said data is transmitted
- 2 using electromagnetic radiation.
- 1 4. The transportable container of Claim 3, wherein said electromagnetic
- 2 radiation is in a frequency range of about 3 kHz to about 300 GHz.
- 1 5. The transportable container of Claim 1, wherein said sensor comprises a
- 2 memory for storing said data related to said monitored condition.
- 1 6. The transportable container of Claim 1, further comprising:

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- an internal portion of said transportable container, wherein said sensor is 2 mounted to the internal portion of said transportable container. 3
- The transportable container of Claim 1, further including a second sensor, 1 7. monitoring a condition of said internal environment within said transportable 2 container, and transmitting data related to said monitored condition.
- The transportable container of Claim 1, wherein said sensor includes a 8. 1 plurality of sensor inputs positioned at respective distinct locations within said 2 transportable container, each said sensor input monitoring said condition of said 3 internal environment at said respective distinct locations within said container.
- The transportable container of Qlaim 1, further including: 9. 1 a transceiver in communication with said sensor, receiving and transmitting 2 said data transmitted by said sensor. 3
- The transportable container of Claim 9, wherein said transceiver is 10. connected with said transportable container, and wherein said data is transmitted 2 3 over a network bus.
- The transportable container of Claim 9, wherein said data is transmitted 1 11. between said sensor and said transceiver using electromagnetic radiation. 2

- 1 12. The transportable container of Claim 11, wherein said electromagnetic
- 2 radiation is in a frequency range of about 3 kHz to about 300 GHz.
- 1 13. A transportable container monitoring system for monitoring an internal
- 2 environmental condition of a transportable container having an internal
- 3 environment isolated from ambient atmospheric conditions, the transportable
- 4 container monitoring system comprising:
- a sensor, monitoring said internal environmental condition, and transmitting
- data representative of said monitored internal environmental condition; and,
- a transceiver in communication with said sensor, receiving and transmitting
- 8 said transmitted data.
- 1 14. The transportable container mornitoring system of Claim 13, wherein said
- 2 transportable container is positioned on a processing tool, and wherein said
- 3 transceiver is operatively connected with said processing tool.
- 1 15. The transportable container monitoring system of Claim 14, wherein said
- 2 transceiver provides/said data to said processing tool, and said processing tool
- deactivates if said data is not within a desired operating range.
- 1 16. The transportable container monitoring system of Claim 13, further
- 2 including:

- a second transceiver, at a location external to said transportable container,
- 4 for receiving and transmitting said data transmitted by said transceiver.
- 1 17. The transportable container monitoring system of Claim 16, further
- 2 including:
- a host computer receiving and processing said data transmitted from said
- 4 second transceiver.
- 1 18. The transportable container monitoring system of Claim 17, wherein said
- 2 host computer is at a remote location relative to said transportable container.
- 1 19. The transportable container monitoring system of Claim 17, wherein said
- 2 host computer determines if said monitored internal environmental condition
- within said transportable container is within a desired operating range.
- 1 20. The transportable container monitoring system of Claim 19, wherein said
- 2 container is positioned on a processing tool, and wherein said host computer
- deactivates said processing tool if said internal environmental condition is not
- 4 within said desired operating range.
- 1 21. / A transportable container having an internal environment isolated from
- 2 ambient atmospheric conditions, comprising:

3	a plurality of sensors, each sensor monitoring an internal environmental		
4	condition within said transportable container;		
5	a transceiver in communication with said plurality of sensors, receiving and		
6	transmitting said data transmitted by said plurality of sensors; and,		
7	a power supply, providing power to said at least one sensor and said		
8	transceiver.		
1	22. The transportable container of Claim 21, wherein at least one of said		
2	sensors in said plurality of sensors is selected from a group comprising:		
3	a temperature sensor;		
4	a humidity sensor; and		
5	an accelerometer sensor		
1	23. The transportable container of Claim 21, wherein at least one of said		
2	plurality of sensors includes a plurality of sensor inputs, mounted with said internal		
3	portion of said container at distinct locations, sensing an internal environmental		
4	condition within said container at said respective distinct locations.		
1	24. The transportable container of Claim 21, wherein said communication		
2	between said plurality of sensors and said transceiver is performed over a network		
3	bus.		

I	25. A transportable container sensor network, for monitoring internal
2	environmental conditions within a transportable container, comprising:
3	a network bus;
4	a transceiver, connected with said network bus;
5	a plurality of network nodes, connected with said network bus; and,
6	a plurality of sensors, connected with said network nodes, wherein said
7	sensors monitor said internal environment conditions within said transportable
8	container, and provide data to said network nodes related to said internal
9	environment conditions.
1	26. The transportable container sensor network of Claim 25, wherein said
2	plurality of network nodes are configured as a master-slave network, and wherein
3	said network bus functions as a gateway.
1	27. The transportable container sensor network of Claim 25, wherein said
2	plurality of network nodes are configured as a pier-to-pier network.
1	28. A method for monitoring an internal environmental condition within a
2	transportable container having an internal environment isolated from ambient
3	atmospheric conditions, comprising the steps of:
4	monitoring with a sensor, said internal environmental condition within said
5	transportable container;
6	generating data related to said monitored condition; and,

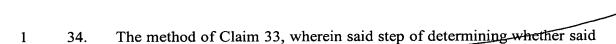
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7		transmitting said data.
1 .	29.	The method of Claim 28, further including the steps of:
2		receiving said data at a location external to said transportable container;
3	and,	
4		processing said data to determine if said internal environmental condition
5	is wit	hin a desired operating range.
1	30.	The method of Claim 28, wherein said step of monitoring includes
2	moni	toring a plurality of internal environmental conditions with a plurality of
3	senso	ors.
1	31.	The method of Claim 28, wherein said data is transmitted using
2	electi	romagnetic radiation.
1	32.	The method of Claim 31, wherein said electromagnetic radiation is in a
2	frequ	ence range between about 3 kHz to about 300 Ghz.
1	33.	The method of Claim 28, further including the steps of:
2		determining whether said internal environmental condition is within a
3	desir	ed perating range; and,
4		alerting an operator if it is determined that said internal environmental

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condition is not within a desired operating range.



- internal environmental condition is within a desired operating range includes the
- 3 step of:

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4 processing said data related to said internal environmental condition.

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